1	CLAIMS
2	What is claimed is:
′3	Claim 1. A wireless security, telemetry and control
4	system for a mobile piece of equipment comprising:
5	at least one smart relay unit associated with a selected
6	function of said mobile piece of equipment, said at least one
7	smart relay unit having a means for receiving wireless
8	communication from a main control unit;
9	a main control unit located within said piece of
10	equipment having a means for transmitting wireless
11	communication to said at least one smart relay, said main
12	control unit also having a means of establishing a user ID;
13	whereby said main control unit establishes said user ID
14	and thereafter sends a wireless communication to said smart
15	relay to enable or disable said function of said mobile piece
16	of equipment to which it is associated.
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18	Claim 2. The wireless security, telemetry and control

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Claim 3. The wireless security, telemetry and control system of Claim 1 wherein means for transmitting wireless communication from said main control unit to said at least

system of Claim 1 wherein means for transmitting wireless

communication from said main control unit to said at least

one smart relay unit includes a radio frequency transmitter.

1		one smart relay unit includes a low frequency transmitter.
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3		Claim 4. The wireless security, telemetry and control
4		system of Claim 1 wherein means for transmitting wireless
5	ž	communication from said main control unit to said at least
6		one smart relay unit includes an infra red transmitter.
7 8		Claim 5. The wireless security, telemetry and control
9		system of Claim 1 wherein said smart relay unit includes a
10		means for transmitting wireless communication to said main
11		control unit, and said main control unit includes a means for
12		receiving wireless communication from said smart relay unit.
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14		Claim 6. The wireless security, telemetry and control
15		system of Claim 5 wherein means for transmitting wireless
16		communication from said at least one smart relay unit to said
17		main control unit includes a radio frequency transmitter.
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19		Claim 7. The wireless security, telemetry and control
20		system of Claim 5 wherein means for transmitting wireless
21		communication from said at least one smart relay unit to said
22		main control unit includes a low frequency transmitter.
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24		Claim 8. The wireless security, telemetry and control
25		system of Claim 5 wherein means for transmitting wireless

communication from said at least one smart relay unit to said 2 main control unit includes a infra red transmitter. 3. Claim 9. The wireless security, telemetry and control system of Claim 5 wherein said main control unit includes a memory for storing said wireless communications received from said smart relay; wherein said stored communications can be downloaded to 9 a external electronic device in electrical communication with 10 said main control unit. 11 Claim 10. The wireless security, telemetry and control 12 13 system of Claim 1 wherein said means for establishing a user ID includes at least one electronic key, said electronic key 15 constructed and arranged for electrical communication with an 16 electronic key receiver, said electronic key receiver secured 17 within said mobile piece of equipment and in electrical 18 communication with said main control unit. 19 20 Claim 11. The wireless security, telemetry and control 21 system of Claim 10 wherein said electronic key includes a 22 user code in read only memory whereby said user code is

programmed into said read only memory via a computer and a

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writer interface.

1.	Claim 12. The wireless security, telemetry and control
2 .	system of Claim 10 wherein said electronic key includes a
3	user code in random access memory whereby said user code is
4	programmed into said random access memory via a computer and
5	a reader-writer interface.
7	Claim 13. The wireless security, telemetry and control
8	system of Claim 1 wherein said main control unit includes at
9	least one two-way communication system for transmission of
10	data from said main control unit to a remote base station and
11	transmission of commands from said remote base station to
12	said main control unit.
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14	Claim 14. The wireless security, telemetry and control
15	system of Claim 13 wherein said two-way communication system
16	is a two-way pager system.
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18	Claim 15. The wireless security, telemetry and control
19	system of Claim 14 wherein said two-way pager communication
20	system includes ReFlex type communication protocol.
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22	Claim 16. The wireless security, telemetry and control
23 ;	system of Claim 13 wherein said two-way communication system
24	is a two-way cellular system.

Claim 17. The wireless security, telemetry and control system of Claim 11 wherein said at least one smart relay includes a basic mode wherein said at least one smart relay 3 has normally open electrical contacts and said function of 5 said mobile piece of equipment to which it is associated will not function until said main control unit transmits a allow function signal to said at least one smart relay. Claim 18. The wireless security, telemetry and control 10 system of Claim 5 wherein said at least one smart relay includes a smart mode wherein said at least one smart relay 11 has normally closed electrical contacts and said smart relay 12 13 unit monitors for attempted use of said function of said mobile piece of equipment to which it is associated, whereby 14 upon an attempted use of said function said smart relay unit 15 16 transmits a signal to said main control unit if said main control unit transmits an accepted identification back to 17 18 said smart relay said function is allowed to operate, if said main control unit transmits an unaccepted identification to 19 said smart relay said smart relay is opened thereby 20 21 preventing said function from operation;

wherein said smart relay mode hides said smart relay from diagnostic equipment and the mobile equipment's on-board computer.

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Claim 19. The wireless security, telemetry and control system of Claim 5 wherein said at least one smart relay 2 includes a sensing mode wherein said relay utilizes at least 4 one analog sensor for monitoring a function of the mobile 5 equipment, converts the sensed analog data to a digital 6 signal and transmits said digital data to the main control 7 unit; wherein at least one of the following parameters is 9 sensed and data is transmitted to said main control unit; 10 electrical, speed, pressure, temperature, fluid level, fluid 11 flow, load, opening of the trunk, hood, doors, windows, 12 movement of the vehicle or within the vehicle, ultrasonic, 13 microwave and radar motion, vibration, sound discrimination, 14 differential pressure, electrical switches. 15. 16 Claim 20. The wireless security, telemetry and control 17 system of Claim 5 wherein said at least one smart relay 18 includes a sensing mode wherein said relay utilizes at least 19 one digital sensor for monitoring a function of the mobile equipment and transmits said sensed digital data to the main 20 21 control unit; 22 wherein at least one of the following parameters is sensed and data is transmitted to said main control unit; 23 24 electrical, speed, pressure, temperature, fluid level, fluid 25 flow, load, opening of the trunk, hood, doors, windows,

- 1 movement of the vehicle or within the vehicle, ultrasonic,
- 2 microwave and radar motion, vibration, sound discrimination,
- differential pressure, electrical switches.